Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

TRANSACTIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

EDITED BY

MAXIME BÔCHER

HENRY SEELY WHITE LEONARD EUGENE DICKSON

WITH THE COÖPERATION OF

GEORGE D. BIRKHOFF GILBERT A. BLISS JOHN I. HUTCHINSON
EDWARD KASNER MAX MASON FOREST R. MOULTON
PERCEY F. SMITH ERNST J. WILCZYNSKI EDWIN B. WILSON

VOLUME 14,
1913

PUBLISHED BY THE SOCIETY
LANCASTER, PA., AND NEW YORK
1913

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA

TABLE OF CONTENTS

VOLUME 14 1913

PAGES

BIRKHOFF, GEORGE D., of Cambridge, Mass. Proof of Poincaré's geometric theorem 14

———— On a simple type of irregular singular point 462

BÔCHER, MAXIME, of Cambridge, Mass. Applications and generalizations of the conception of adjoint systems 403

CAMP, BURTON H., of Middletown, Conn. Singular multiple integrals, with applications to series 42

CARMICHAEL, R. D., of Bloomington, Ind. On transcendentally transcendental functions 311

CLEMENTS, G. R., of Madison, Wis. Implicit functions defined by equations with vanishing Jacobian 325

COBLE, ARTHUR B., of Baltimore, Md. An application of finite geometry to the characteristic theory of the odd and even theta functions. . . 241

COLE, F. N., of New York City. The triad systems of thirteen letters . 1

COOLIDGE, J. L., of Cambridge, Mass. A study of the circle cross . . . 149

DEDERICK, L. S., of Princeton, N. J. On the character of a transformation in the neighborhood of a point where its Jacobian vanishes 143

DENTON, WILLIAM WELLS, of Urbana, Ill. Projective differential geometry of developable surfaces 175

DICKSON, LEONARD EUGENE, of Chicago, Ill. Proof of the finiteness of modular covariants 299

EISENHART, LUTHER PFAHLER, of Princeton, N. J. Certain continuous deformations of surfaces applicable to the quadrics 365

FRÉCHET, MAURICE, of Poitiers, France. Sur les classes V normales . . 320

GRONWALL, T. H., of Chicago, Ill. Some asymptotic expressions in the theory of numbers. 113

JACKSON, DUNHAM, of Cambridge, Mass. On the approximate representation of an indefinite integral and the degree of convergence of related Fourier's series. 343

———— On the degree of accuracy of trigonometric interpolation . 453

LEFSCHETZ, SOLOMON, of Lincoln, Neb. On the existence of loci with given singularities 23

LENNES, N. J., of New York City. Note on Van Vleck's non-measurable sets 109

MCDONNELL, J., of Ottawa, Canada. On quadratic residues 477

MILLER, G. A., of Urbana, Ill. On the representation groups of given abstract groups 444

MITCHELL, H. H., of Philadelphia, Penn. Determination of the finite quaternary linear groups 123

MOORE, CHARLES N., of Cincinnati, Ohio. On convergence factors in double series and the double Fourier's series 73

OSGOOD, WILLIAM F., of Cambridge, Mass. (with EDSON H. TAYLOR). Conformal transformations on the boundaries of their regions of definition 277

SANDERSON, MILDRED, of Chicago, Ill. Formal modular invariants with application to binary modular covariants 489

SHEFFER, Henry Maurice, of Ithaca, N. Y. A set of five independent postulates for Boolean algebras, with application to logical constants 481

SNYDER, VIRGIL, of Ithaca, N. Y. Algebraic surfaces invariant under an infinite discontinuous group of birational transformations 105

TAYLOR, EDSON H., of Charleston, Ill. (with WILLIAM F. OSGOOD). Conformal transformations on the boundaries of their regions of definition 277

VEBLEN, OSWALD, of Princeton, N. J. Decomposition of an N-space by a polyhedron 65

WHITE, H. S., of Poughkeepsie, N. Y. Triple-systems as transformations, and their paths among triads 6

WILCZYNSKI, E. J., of Chicago, Ill. On a certain set of self-projective surfaces 421

WILLIAMS, K. P., of Bloomington, Ind. The solutions of non-homogeneous linear difference equations and their asymptotic form . . . 209